

ABSTRACT OF THE DISCLOSURE

Microcode driven adjustment of analog scaling of an analog signal prior to being provided to an analog-to-digital converter. The microcode also causes the system to read the resulting digital value, and determine whether the scaling value should be adjusted for that analog signal. Accordingly, the microcode may cause the analog signal to be dynamically adjusted to be within the input range of the analog-to-digital converter, thereby allowing for more accurate digital conversions with lower resolution analog-to-digital converters. The microcode rapidly adjusts for any fluctuations in the input voltage. Accordingly, the analog signal may fluctuate, or even be multiplexed from a wide variety of different analog signal sources.

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